WHAT IS CLAIMED IS:

l	1. A medical article sterilization device comprising:
2	a pretreatment area for medical articles, the pretreatment area having a heat
3	source to heat the medical articles;
4	a device to form a housing in a first web;
5	an article loading station where a medical article heated in the pretreatment area
	is loaded into the housing in the first web;
1. 1. 11	an alignment device to align a second web with the first web; and
5	a sterilization-sealing station where the first web and the second web, with the
9	medical article loaded into the housing are sterilized and then the first and second webs are
<u>j</u>	sealed together.
Ĭ	2. A medical article sterilization device according to claim 1, wherein the
2	sterilization-sealing station further comprises gas injection pins to inject gas into the housing,
3	between the first and second webs.
1	3. A medical article sterilization device according to claim 2, wherein the
2	sterilization-sealing station further comprises a steam source to inject steam into the housing,
3	between the first and second webs.

1	4.	A medical article sterilization device according to claim 1, wherein the
2	sterilization-s	sealing
3	station furthe	er comprises a steam source to supply steam to the housing.
1	5.	A medical article sterilization device according to claim 1, wherein:
2		substantially no moisture is supplied to the medical articles at the sterilization-
<u>3</u>	sealing statio	on, and
4) (1)		the pretreatment area has a steam source to supply moisture to the medical
	articles.	
Ť	6.	A medical article sterilization device according to claim 5, wherein:
2	•	the sterilization-sealing station comprises a vacuum source and a controller,
		the vacuum source evacuates the housing,
4		evacuating the housing removes moisture from the medical articles, and
5		the controller maintains the pressure in the housing so as to allow some moisture
6	to remain wi	th the medical articles
1	7.	A medical article sterilization device according to claim 6, wherein the
2	controller ma	aintains the pressure in the housing so as to allow the relative humidity in the
3	housing to be	e at least 40 % during sterilization gas exposure.
1	8. A	medical article sterilization device comprising:

12.

2	a device to form a housing in a first web;
3	an article loading station where a medical article is loaded into the housing in
4	the first web;
5	an alignment device to align a second web with the first web; and
6	a sterilization-sealing station where the first web and the second web, with the
7	medical article loaded into the housing are sterilized and then, the first and second webs are
8	sealed together, the sterilization-sealing station comprising gas injection pins to inject gas into
9	the housing, between the first and second webs.
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Ť	9. A medical article sterilization device according to claim 8, wherein the
2	sterilization-sealing station further comprises a steam source to inject steam into the housing,
3 3	between the first and second webs.
<u></u>	10. A medical article sterilization device according to claim 9, further comprising a
2	pretreatment area for medical articles, the pretreatment area having a heat source to heat the
3	medical articles.
1	11. A medical article sterilization device according to claim 8, wherein the second
2	web is formed of a gas permeable material.

A medical article sterilization device according to claim 8, wherein:

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2		substantially no moisture is supplied to the medical articles at the sterilization-
3	sealing station	n, and
4		the medical article sterilization device further comprises a pretreatment area
5	having a stear	n source to supply moisture to the medical articles.
1	13.	A medical article sterilization device according to claim 12, wherein:
2		the sterilization-sealing station further comprises a vacuum source and a
3	controller,	\cdot
1		the vacuum source evacuates the housing,
5		evacuating the housing removes moisture from the medical articles, and
1 25.00 that the said to a man the said that the said the		the controller maintains the pressure in the housing so as to allow some moisture
	to remain wit	h the medical articles.
7) 1) 1) 2		
.) i 1)	14.	A medical article sterilization device according to claim 13, wherein the
2	controller ma	intains the pressure in the housing so as to allow the relative humidity in the
3	housing to be	at least 40 % during sterilization gas exposure.
1	15	A method of sterilizing a medical article comprising:
2		preheating a medical article in a pretreatment area;
3		forming a housing in a first web;
4		loading the medical article heated in the pretreatment area into the housing
5	formed in the	first web;

6		aligning a second web with the first web;
7		sterilizing the medical article ocated in the housing and between the first and
8	second webs;	
9		after sterilizing the medical article, sealing the first web to the second web, with
0	the medical ar	rticle located in the housing and between the first and second webs.
1	16.	A method of sterilizing a medical article according to claim 15, further
5	comprising in	jecting gas into the housing, between the first and second webs, through gas
	injection pins	
	17.	A method of sterilizing a medical article according to claim 16, wherein steam is
2	injected into t	he housing, between the first and second webs, through the gas injection pins.
ui ‡} Li	18.	A method of sterilizing a medical article according to claim 15, wherein steam is
2	injected into t	he housing, between the first and second webs.
1	19.	A method of sterilizing a medical article according to claim 15, wherein:
2		sterilization and sealing are conducted at a sterilization-sealing station,
3		substantially no moisture is supplied to the medical article at the sterilization-
4	sealing station	n, and
5		steam is supplied to the medical article at the pretreatment area.

1	20. A method of sterilizing a medical article according to claim 19, further
2	comprising the steps of:
3	evacuating the housing at the sterilization sealing station so as to remove
4	moisture from the medical article, and
5	maintaining the pressure in the housing so as to allow some moisture to remain
6	with the medical article.
	21. A medical article sterilization device according to claim 20, wherein the
(I) 2 .)	pressure in the housing is maintained so as to allow the relative humidity in the housing to be
	at least 40 % during sterilization gas exposure.
Lj	22. A method of sterilizing a medical article comprising:
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	forming a housing in a first web;
1	loading a medical article into the housing formed in the first web;
4	aligning a second web with the first web;
5	injecting gas into the housing, between the first and second webs, through gas
6	injection pins;
7	sterilizing the medical article located in the housing and between the first and
8	second webs; and
9	after sterilizing the medical article, sealing the first web to the second web, with
10	the medical article/located in the housing and between the first and second webs.

23.

1	28.	A method of sterinzing a medical article according to claim 22, wherein the
2	second web is	s formed of a gas permeable material.
1	29.	A method of sterilizing a medical article according to claim 23, further
2	comprising p	reheating the medical article in a pretreatment area.
1	30.	A method of sterilizing a medical article according to claim 22, wherein:
<u>2</u>]		sterilization and sealing are conducted at a sterilization-sealing station,
Ų N		substantially no moisture is supplied to the medical article at the sterilization-
(1) 4:	sealing station	n, and
77 13 13 14 14 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		moisture is supplied to the medical article as steam at a pretreatment area.
- - - - - - - - - - - - -	31.	A method of sterilizing a medical article according to claim 30, further
21 	comprising th	ne steps of:
3		evacuating the housing at the sterilization-sealing station so as to remove
4	moisture from	n the medical article, and
5		maintaining the pressure in the housing so as to allow some moisture to remain
6	with the med	ical article.
1	32.	A medical article sterilization device according to claim 31, wherein the
2	pressure in th	he housing is maintained so as to allow the relative humidity in the housing to be
3	at least 40 %	during sterilization gas exposure.